

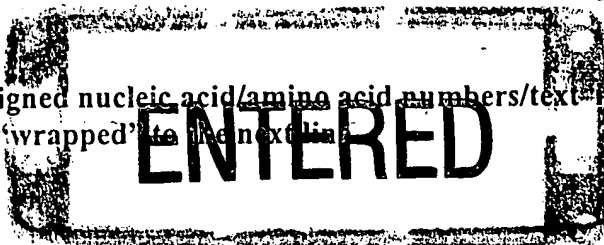
PUT/10

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/505,171

CRF Edit Date: 9/10/04
Edited by: AR

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line



Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

2



PCT

RAW SEQUENCE LISTING

DATE: 09/10/2004

PATENT APPLICATION: US/10/505,171

TIME: 18:07:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09102004\J505171.raw

```

3 <110> APPLICANT: AMANO ENZYME INC.
5 <120> TITLE OF INVENTION: Modified promoter
7 <130> FILE REFERENCE: P0200102
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/505,171
C--> 9 <141> CURRENT FILING DATE: 2004-08-31
9 <150> PRIOR APPLICATION NUMBER: JP P2002-055853
10 <151> PRIOR FILING DATE: 2002-03-01
12 <150> PRIOR APPLICATION NUMBER: JP P2002-354670
13 <151> PRIOR FILING DATE: 2002-12-06
15 <160> NUMBER OF SEQ ID NOS: 38
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 11
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (6)..(11)
30 <223> OTHER INFORMATION: n stands for any base.
33 <400> SEQUENCE: 1
W--> 34 ccaatnnnnn n 11
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 14
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
45 <220> FEATURE:
46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (4)..(12)
48 <223> OTHER INFORMATION: n stands for any base.
51 <400> SEQUENCE: 2
W--> 52 cggnnnnnnn nngg 14
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 11
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
63 <400> SEQUENCE: 3
64 ccaattagaa g 11

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/505,171

DATE: 09/10/2004

TIME: 18:07:42

Input Set : A:\PTO.AMC.txt

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67 <210> SEQ ID NO: 4
68 <211> LENGTH: 14
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature
77 <222> LOCATION: (5)..(5)
78 <223> OTHER INFORMATION: n stands for any base.
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (10)..(10)
84 <223> OTHER INFORMATION: n stands for any base.
87 <400> SEQUENCE: 4
W--> 88 cgghnwwwn whgg 14
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 14
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
99 <400> SEQUENCE: 5
100 cggwwwwwww whgg 14
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 14
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
111 <400> SEQUENCE: 6
112 cggaattta aagg 14
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 14
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
123 <400> SEQUENCE: 7
124 cggaatttaa acgg . 14
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 14
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: an enhancer sequence
135 <400> SEQUENCE: 8
136 cggaattta acgg 14
139 <210> SEQ ID NO: 9

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RAW SEQUENCE LISTING

DATE: 09/10/2004

PATENT APPLICATION: US/10/505,171

TIME: 18:07:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09102004\J505171.raw

```

140 <211> LENGTH: 128
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
146     sequence and SRE
148 <400> SEQUENCE: 9
149 ccaattagaa gcagcaaagc gaaacagccc aagaaaaagg tcggcccgtc ggccttttct      60
151 gcaacgctga tcacgggcag cgatccaacc aacaccctcc agagtgacta ggggcggaaa      120
153 tttaaagg                                     128
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 196
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
163     sequence and SRE
165 <400> SEQUENCE: 10
166 ctgcagacca cctctaggca tcggacgcac catccaatta gaagcagcaa agcgaaacag      60
168 cccaagaaaa aggtcggccc gtcggccttt tctgcaacgc tgatcacggg cagcgatcca      120
170 accaacaccc tccagagtga ctaggggagg aaattttaag ggattaattt ccaactcaacc      180
172 acaaatcaca ctgcag                                     196
175 <210> SEQ ID NO: 11
176 <211> LENGTH: 193
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:a DNA fragment including
CCAAT
182     sequence and SRE
184 <400> SEQUENCE: 11
185 ctcgagaggg atcggacgca ccatccaatt agaagcagca aagcgaaaca gccaagaaa      60
187 aaggtcggcc cgctggcctt ttctgcaacg ctgatcacgg gcagcgatcc aaccaacacc      120
189 ctccagagtg actaggggag gaaatttaaa gggattaatt tccactcaac cacaatcac      180
191 agtcggcggc cgc                                     193
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 615
196 <212> TYPE: DNA
197 <213> ORGANISM: Aspergillus oryzae
199 <220> FEATURE:
200 <221> NAME/KEY: promoter
201 <222> LOCATION: (1)..(615)
202 <223> OTHER INFORMATION:
W--> 204 <400> 12
205 gaattcatgg tgttttgatc attttaaatt tttatatggc ggggtggtggg caactcgctt      60
207 ccgggcaact cgcttaccga ttacgttagg gctgatattt acgtaaaaat cgtcaaggga      120
209 tgcaagacca aagtagtaaa accccggagt caacagcatc caagcccaag tccttcacgg      180
211 agaaacccca gcgtccacat cacgagcgaa ggaccacctc taggcacgag acgcaccatc      240
213 caattagaag cagcaaagcg aaacagccca agaaaaaggt cggcccgtcg gccttttctg      300
215 caacgctgat caggggcagc gatccaacca acaccctcca gagtgactag gggcgggaaat      360

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RAW SEQUENCE LISTING

DATE: 09/10/2004

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TIME: 18:07:42

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```

217 ttaaagggat taatttccac tcaaccacaa atcacagtcg tccccgggtat tgtcctgcag      420
219 aatgcaattt aaactcttct gcgaatcgct tggattcccc gccctggcc gtagagctta      480
221 aagtatgtcc cttgtcgatg cgatgtatca caacatataa atactagcaa gggatgccat      540
223 gcttggagga tagcaaccga caacatcaca tcaagctctc ctttctctga acaataaacc      600
225 ccacagaagg cattt                                     615
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 44
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
235         lifying CCAAT sequence
237 <400> SEQUENCE: 13
238 ccgctcgagg caccatccaa ttagaagcgc ggccgctaaa ctat                        44
241 <210> SEQ ID NO: 14
242 <211> LENGTH: 44
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
248         lifying CCAAT sequence
250 <400> SEQUENCE: 14
251 atagttagc ggccgcgctt ctaattggat ggtgcctcga gcgg                        44
254 <210> SEQ ID NO: 15
255 <211> LENGTH: 46
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
261         lifying SRE
263 <400> SEQUENCE: 15
264 gactagttaa cctaggggcg gaaatttaac gggatgttaa ctagtc                        46
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 46
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
274         lifying SRE
276 <400> SEQUENCE: 16
277 gactagttaa catcccgtaa aatttccgcc cctaggttaa ctagtc                        46
280 <210> SEQ ID NO: 17
281 <211> LENGTH: 30
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
287         lifying a DNA fragment including CCAAT sequence and SRE

```

289 <400> SEQUENCE: 17

RAW SEQUENCE LISTING

DATE: 09/10/2004

PATENT APPLICATION: US/10/505,171

TIME: 18:07:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09102004\J505171.raw

```

290 aaactgcaga ccacctctag gcatcggaagc 30
293 <210> SEQ ID NO: 18
294 <211> LENGTH: 30
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
300      lifying a DNA fragment including CCAAT sequence and SRE
302 <400> SEQUENCE: 18
303 tttctgcagt gttgatttgt ggttgagtgg 30
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 27
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
313      lifying a DNA fragment including CCAAT sequence and SRE
315 <400> SEQUENCE: 19
316 cggctcgagg catcggaagc accatcc 27
319 <210> SEQ ID NO: 20
320 <211> LENGTH: 40
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence: a PCR primer designed
for amp
326      lifying a DNA fragment including CCAAT sequence and SRE
328 <400> SEQUENCE: 20
329 atagtttagc ggccgccgac tgtgatttgt ggttgagtgg 40
332 <210> SEQ ID NO: 21
333 <211> LENGTH: 45
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Description of Artificial Sequence:a primer for site-
directed mut
339      agensis
341 <400> SEQUENCE: 21
342 cgcttggatt ccccgccgac ggccgcagag cttaaagtat gtccc 45
345 <210> SEQ ID NO: 22
346 <211> LENGTH: 45
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Description of Artificial Sequence:a primer for site-
directed mut
352      agensis
354 <400> SEQUENCE: 22
355 gaatgcaatt taaactcttc ctgagtcgc ttggattccc cgccc 45
358 <210> SEQ ID NO: 23
359 <211> LENGTH: 47

```

360 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/505,171

DATE: 09/10/2004
TIME: 18:07:43

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09102004\J505171.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~6,7,8,9,10,11~~

Seq#:2; N Pos. ~~4,5,6,7,8,9,10,11,12~~

Seq#:4; N Pos. ~~5,10~~

VERIFICATION SUMMARY

DATE: 09/10/2004

PATENT APPLICATION: US/10/505,171

TIME: 18:07:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09102004\J505171.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:204 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:202